

Abstract

The invention refers to a method and apparatus for CVD coating and to a coated body. To improve the mechanical properties of the structure and surface of the body and to make the method and apparatus as simple and cost-effective as possible, it is suggested in the method, in which a layer is deposited on a substrate in a carbon-containing gas atmosphere:

- that the process parameters be varied during the coating period in such a way that during the coating period a first operating mode and a second operating mode are repeatedly alternated,
- wherein in the first operating mode a higher carbon over-saturation of the gas atmosphere occurs near the substrate,
- and in the second operating mode a lower carbon over-saturation of the gas atmosphere occurs near the substrate.

In this way, a body can be produced with a substrate and at least one layer deposited on the surface of the substrate, wherein the layer consists of nano-crystalline diamond.

Fig. 7